

MODIS IOT Weekly Report

Mission Operations Days: 2000/323 to 2000/329

November 17, 2000 20:00:00 GMT to November 24, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in B-side Science Mode

Blackbody	A Off; B On	Nominal
Calibration Electronics	A Off; B On	Nominal
Control Processor	A Off; B On	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A Off; B On	Nominal
FDDI Port	A On; B Off	Nominal
FIFO Memory	1 & 2 Off; 3 & 4 On	Nominal
Format Processor	A Off; B On	Nominal
Power Supply: 1	Off	Nominal
2	On	Nominal
PV FPAs: VIS	A Off; B On	Nominal
NIR	A Off; B On	Nominal
SMIR	A Off; B On	Nominal
LWIR	A Off; B On	Nominal
PC FPA: LWIR	A Off; B On	Nominal
Radiative Cooler:		
Outgas Heaters	All Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A Off; B On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A Off; B On	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	68	Nominal

This Week's Completed MODIS Activities:

Friday, November 17, 2000

Leonid Meteor shower Nov 17th & 18th: MODIS remained in nominal B-side science operations, however, all calibration activities were suspended during this time.

Saturday, November 18, 2000

None

Sunday, November 19, 2000

None

Monday, November 20, 2000

325/21:00:00 ATC Set Blackbody to 270K

Tuesday, November 21, 2000

326/15:00:00 ATC Set Blackbody to 280K

326/19:00:00 ATC Set Blackbody to 285K

326/21:00:00 ATC Set Blackbody to 290K

326/23:00:00 ATC Set Blackbody to 295K

326/23:01:00 ATC Set Blackbody duty cycle to FULL

Wednesday, November 22, 2000

327/01:00:00 ATC Set Blackbody to 300K

327/03:00:00 ATC Set Blackbody to 315K

327/05:00:00 ATC Set Blackbody to 270K

327/05:01:00 ATC Set Blackbody duty cycle to THIRD

327/21:25:10 ATC OA15: SDSM Open

327/23:04:03 ATC OA16: SDSM Screened

Thursday, November 23, 2000

328/01:00:00 ATC Set Blackbody to 290K

328/09:48:37 - 10:22:10 ATC SRCA Full Radiometric (B)

Friday, November 24, 2000

329/10:29:10 - 11:20:49 ATC SRCA Full Spectral 30W Part I (B)

329/12:24:17 - 12:59:02 ATC SRCA Full Spectral 30W Part II (B)

329/13:46:23 - 14:37:39 ATC SRCA Full Spectral 10W Part I (B)

329/15:42:04 - 16:20:02 ATC SRCA Full Spectral 10W Part II (B)

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, November 24, 2000

None

Saturday, November 25, 2000

None

Sunday, November 26, 2000

None

Monday, November 27, 2000

None

Tuesday, November 28, 2000

None

Wednesday, November 29, 2000

327/21:31:26 ATC OA15: SDSM Open

327/23:10:19 ATC OA16: SDSM Screened

Thursday, November 30, 2000

None

Friday, December 1, 2000

None

Maneuvers:

None.

MODIS Anomalies:

No formatter anomalies have been detected since switching to B-side science operations. The MODIS IOT is continuing to monitor changes with the radiative cooler temperatures and focal plane power.

General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP). No new events have been witnessed by the FRFSP since the B-Side Transition on DOY 304.

MODIS Telemetry Trends:

The Radiative Cooler intermediate stage temperature has slowly been increasing since approximately day 240. During this time the LWIR focal plane heater margin has been decreasing. The IOT is continuing to trend these telemetry mnemonics.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 176.3 of 500 hours

SRCA 10W Lamp #2: 137.6 of 500 hours

SRCA 10W Lamp #3: 146.8 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.3 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1459 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements